

Procurement Division
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AMENDMENT TO SOLICITATION

AMENDMENT NO. 1 ISSUE DATE: 06/19/2025

SOLICITATION NO. P2025-05-04 **DATED:** 05/20/2025

PROJECT: Mechanical Engineering Services for Tuskers HVAC System

QUESTIONS TO ANSWERS:

All questions received by companies through June 10, 2025 have been combined and answered in red below.

QUESTION 1): The request for qualifications lists a cost proposal and breakdown on cost. Engineers don't compete by costs (the engineering board deems cost competition to be unethical), we present qualifications and selections are made based on qualification. Please provide an update for evaluation criteria.

ANSWER 1): See attached

QUESTION 2): Is an insurance certificate required with the proposal for qualifications. Insurance requirement schedule seems to apply to contractors. Please update for engineering services if required. ANSWER 2): The insurance certificate is not required with the proposal for qualifications, however it will be required for the awarded vendor to provide per Attachment A in the solicitation document.

QUESTION 3): Are drawings of the existing mechanical installation available?

ANSWER 3): Yes, see attached

QUESTION 4): The RFP states submissions to be delivered to 500 Wildlife Pkwy. Are the proposals to be delivered to the guest services building where we met or another location at the zoo?

ANSWER 4): Please send all RFP documents to:

Noelle Kelley 400 Rivermont Drive Columbia, SC 29120

QUESTION 5): We understand that there is some language in the RFP that references General Contracting that is merely residual and the intent is clear by other context. However, could Riverbanks Zoo clarify whether the bullets under the Staffing Proposal section remain relevant? We assume the Zoo would like our approach to Engineering (and associated discipline) staffing throughout the project versus a plan for construction discipline staffing. Is this correct?

ANSWER 5): This is correct.

QUESTION 6): Under the "Selection of Contractor" section - there is mention of a Cost Proposal (with a breakdown of cost and all associated costs). Also, the stated evaluation criteria includes "Proposed Project Cost." However, the "Information to be included in the Proposal" section does not reference cost information. Typically, in a qualifications-based selection such as this, proposed design fees would be

negotiated after selection (usually as a percentage of ultimate construction cost). Could the Zoo provide clarification whether a cost proposal is desired at this stage of the evaluation? And if so, specifically what information is desired by the Zoo? At this point, we don't think there is enough information available yet regarding the potential scope of the HVAC replacement to provide a creditably accurate Opinion of Probable Cost (OPC) to the Zoo for construction.

ANSWER 6): Please provide an estimated cost percentage instead of a cost proposal.

QUESTION 7): Ref: Evidence of Financial Responsibility - as the professional services division of our firm, our A/E division does not routinely obtain formally audited financial statements as they are not typically necessary for that element of our business. We do, however, rely on current reviewed financials by calendar year for our construction services and design-build divisions (i.e., construction-related entities), which is used in part to establish and maintain our firm's bonding capacity and is indicative of the overall financial strength. We do, though, consider any specific financial disclosures "confidential." Would the Zoo consider alternative information to meet this requirement (such as evidence of our bonding capacity) instead of financial statements/data at this time? If selected for award, GMK could provide needed financial data upon request.

ANSWER 7): Reviewed financial marked "Confidential" would be sufficient evidence of financial responsibility.

QUESTION 8): There was mention at the site visit that "As-Built" or other Building Drawings" may be available for the Tuskers Restaurant building and infrastructure. While not imperative for the qualifications submittal, would the Zoo be willing to provide those drawings? We would want such drawings should the Zoo select to conduct short-list interviews.

ANSWER 8): Yes, see attached

QUESTION 9): Will the selected engineering firm be responsible for including architectural and structural consultants on the team?

ANSWER 9): Yes, however KCI Technologies is our preferred structural consultant.

QUESTION 10): Is in-house cost estimating acceptable, or is the use of third-party estimators required? **ANSWER 10**): In-house cost estimating is acceptable

QUESTION 11): Are existing drawings available for the restaurant?

ANSWER 11): Yes, see attached

QUESTION 12): Does the existing roof have a performance bond or is there a preferred roofing contractor?

ANSWER 12): There is no preference on roofing contractor or a performance bond.

QUESTION 13): Are the hood exhaust fans or hoods to be considered in the scope?

ANSWER 13): Yes, include all intake/outtake hoods/fans.

INTENTIONALLY LEFT BLANK

Offerors must acknowledge receipt of this amendment by one of the following methods: (a) By signing and returning one copy of this amendment with your bid; (b) By acknowledging receipt of this amendment on each copy of the bid submitted; or separate letter which includes a reference to the solicitation and amendment numbers. Failure of your acknowledgment to be received at the Purchasing Office prior to the hour and date of the opening may result in rejection of your offer. If by virtue of this amendment, you desire to change an offer already submitted, such change may be made by letter, provided such letter makes reference to the solicitation and this amendment and is received prior to the opening hour and date specified.

COMPANY NAME:
NAME & TITLE OF AUTHORIZED REPRESENTATIVE
AUTHORIZED SIGNATURE

Noelle Kelley

Noelle Kelley Procurement Manager

EVALUATION/SELECTION CRITERIA:

A selection committee will evaluate the information submitted and may select finalists for interviews.

The following criteria shall be used to evaluate each firm:

- Specialized experience of the firm and technical expertise of firm personnel in connection with scope of services; 50%
- Past record of performance on projects of similar size and scope; 30%
- Capability of firm to perform the work within time limitations, taking into consideration the current and planned workload of firm; 20%

FOUNDATION AND FLOOR FRAMING PLAN

SCHEDULE OF ALTERNATES

ALTERNATE NO. ONE OUTDOOR DINING AREA SEATING (Space 116):
Add all seating as shown and specified as Outdoor Dining Seating in Section 11400 Food Service Equipment.

ALTERNATE NO. TWO CATERING PREPARATION AREA: Add equipment as identified on Sheet FS-1 for Catering Preparation. Equipment is shown on drawings and specified in Section 11400 Food Service Equipment. Included in this Alternate is connection of gas piping.

ALTERNATE NO. THREE ROOF SHINGLES: Omit Preformed Metal Roofing as specified Section 07412 and furnish Asphalt Shingles as specified Section 07311 (attached).

ALTERNATE NO. FOUR CERAMIC WALL TILE: Omit all ceramic wall tile as scheduled on Sheet A-3 for servince (Space 102), Mens (Space 103), Women (Space 104) and Cooking (Space 109).

ALTERNATE NO. FIVE DINING AREA FOUNDATION: WALL: Omit all wood piling, deck and 1 1/2" concrete slab as shown on Sheet S-1 under Dining (Space 115). Replace with 4" slab and twelve inch concrete block and fill. Foundation footings and wall, wall finish, dirt fill and slab are typical of balance of building. (Kitchen Pod).

GENERAL NOTES

- 1. IN CASE OF A DISCREPANCY BETWEEN THE ARCHITECTURAL AND STRUC-TURAL PLANS, CONSULT WITH THE ARCHITECT. FOR DIMENSIONS OR DETAILS NOT SHOWN, SEE THE ARCHITECT'S PLANS.
- 2. CONCRETE 28 DAY STRENGTHS:
 - A) FLOOR TOPPING 3000 PSI SEMI-LIGHTWEIGHT (115 PCF)
 B) OTHER 3000 PSI REGULAR WEIGHT (150 PCF)
- 3. CONCRETE FOR BOND BEAMS AND WALL FILL 2500 PSI "PEA-GRAVEL" CONCRETE.
- 4. REINFORCING STEEL GRADE 60.
- 5. WOOD POLES:
 - A) 12" DIA. MINIMUM BUTT.
 - ROUND TREATED TIMBER PILES (ASTM D25)
 - PRESERVATIVE TREATMENT C12.

 POLES TO BE INSTALLED BY BORING HOLE WITH DIAMETER 50% LARGER THAN TIP DIAMETER. SETTING POLE. AND FILLING HOLE
 - AROUND POLE WITH CONCRETE.

 E) POLE CAPACITY IS TO BE 12 TONS. AN INDEPENDENT TESTING
 - LAB IS TO VERIFY DEPTH OF REQUIRED EMBEDMENT.

 F) POLE BASE LENGTH 25 FEET.
- 6. WOOD COLUMNS & BEAMS #1 SOUTHERN PINE (19% MAXIMUM MOISTURE CONTENT).
- 7. STUDS, JOISTS, PLATES, MISC. FRAMING #2 SOUTHERN PINE (19% MAX. M.C.).
- 8. PREFABRICATED WOOD TRUSSES:
 - A) DESIGNED BY THE MANUFACTURER FOR THE FOLLOWING LOADS:

TOP CHORD DEAD LOAD - 20 PSF TOP CHORD LIVE LOAD - 16 PSF BOTTOM CHORD DEAD LOAD - 4 PSF TOTAL DESIGN LOAD 40 PSF

- B) MINIMUM LUMBER GRADE FOR ALL MEMBERS (CHORDS & WEBS) TO
- BE #2 SOUTHERN PINE (16% MC).

 C) TRUSS T4 & T5 IS TO CONSIST OF 2 TRUSSES ATTACHED TOGETHER. FACE NAIL WEBS AND CHORDS FROM EACH SIDE WITH 8 PENNY NAILS AT 12" O.C. MAX. BOLT CHORDS TOGETHER WITH 1/2" DIA. BOLTS & WASHERS SPACED AT 4'-0" O.C.
- 9. STRUCTURAL STEEL & MISC. STEEL A36.
- 10. CONNECTIONS:
 - A) STEEL TO STEEL 3/4" DIA. A325 BOLTS.
 B) OTHERS A307 BOLTS OF SIZE SPECIFIED.
 - C) LAG BOLTS:

SPECIFICATIONS.

- 1) A307 FULL THREADED.
- 2) PRE-DRILL LEAD HOLES, DIAMETER OF LEAD HOLES SHALL BE 65% OF THE SHANK DIAMETER.
- 11. STEEL JOISTS "K" SERIES INSTALLED AND BRIDGED IN ACCORDANCE
- WITH THE S.J.I. SPEC'S.

 12. STEEL ROOF DECK TYPE "F", 22 GAGE, GALVANIZED INSTALLED WITH PLUG WELDS IN ACCORDANCE WITH THE MANUFACTURER'S
- 13. PAINT STRUCTURAL STEEL AND STEEL JOISTS ONE SHOP SHOP COAT OF RUST INHIBITIVE PRIMER PAINT.
- 14. CONTRACTOR NOTE: KEEP THE ENTIRE BUILDING FRAME GUYED AND BRACED UNTIL ALL FRAMING IS COMPLETED.
- 15. FOR LINTELS OVER OPENINGS IN 8" CMU WALLS, PROVIDE THE FOLLOWING:

 OPENING WIDTH
 LINTEL
 END BEARING

 4'-0" & LESS
 U BLOCK BOND BEAM
 8"

 4'-1" TO 6'-0"
 2L-5 X 3 1/2 X 1/4 (LLV)
 8"

 OVER 6'-0"
 2L-6 X 3 1/2 X 5/16 (LLV)
 8"

- 16. ALL NOTCHES, DAPS, ETC. REQUIRED TO BE CUT INTO POLES AND WOOD COLUMNS TO LET IN WOOD BEAMS SHALL BE CUT SO THAT NO GAPS OCCUR BETWEEN ANY INTERFACES OF COLUMNS AND BEAMS. CUTS SHALL BE DONE WITH EQUIPMENT WALL SUITED TO DO THE JOB REQUIRED.
- 17. ALL EXPOSED TRUSSES (T4 & T5) TO HAVE 2 X 6 TOP & BOTTOM CHORDS.

SITE PREPARATION

- 1. STRIP THE BUILDING SITE OF ALL ORGANIC TOPSOILS AND LOOSE DUMPED FILL MATERIALS. THE EXACT DEPTH OF STRIPPING SHALL BE DETERMINED BY A REPRESENTATIVE OF THE SOILS ENGINEER.
- 2. UNDER AREAS TO RECEIVE SPREAD FOOTINGS AND SLABS-ON-GRADE, PROOFROLL THE EXPOSED SUBGRADE UNTIL A DENSITY OF 98% IS OBTAINED IN THE TOP 12 INCHES OF SUBGRADE. AREAS OF EXCESSIVE YIELDING SHALL BE EXCAVATED AND BACKFILLED WITH COMPACTED SOIL
- 3. AFTER EXCAVATING FOR FOOTINGS, TEST THE FOOTING BOTTOMS TO INSURE AN ALLOWABLE BEARING CAPACITY OF 3000 PSF.
- 4. PLACE FILL SOILS IN THIN LAYERS AND COMPACT TO 98% OF THE SOILS MAXIMUM DRY DENSITY. (ASTM D698).
- 5. ALL SUBGRADE COMPACTION, TESTING OF FOOTING BOTTOMS, FILL SELECTION, FILL PLACEMENT AND COMPACTION SHALL BE TESTED AND APPROVED BY AN INDEPENDENT TESTING LABORATORY TO INSURE COMPLIANCE WITH REQUIREMENTS SPECIFIED ABOVE. THE TESTING LABORALL ALSO DETERMINE POLE EMBEDMENT LENGTHS REQUIRED TO DEVELOP THE SPECIFIED CAPACITY.
- 6. KEEP THE SITE DE-WATERED AT ALL TIMES BY USING A GRAVITY DRAINAGE SYSTEM, SUMP PUMPS OR OTHER DEWATERING PROCEDURES AS NECESSARY.
- NOTE: THESE SITE PREPARATION NOTES ARE NOT INTENDED AS GUIDANCE IN CONSTRUCTING THE LAGOONS. SEE THE SOILS EXPLORATION REPORT FOR PROCEDURES REQUIRED IN CONSTRUCTING THE LAGOON.

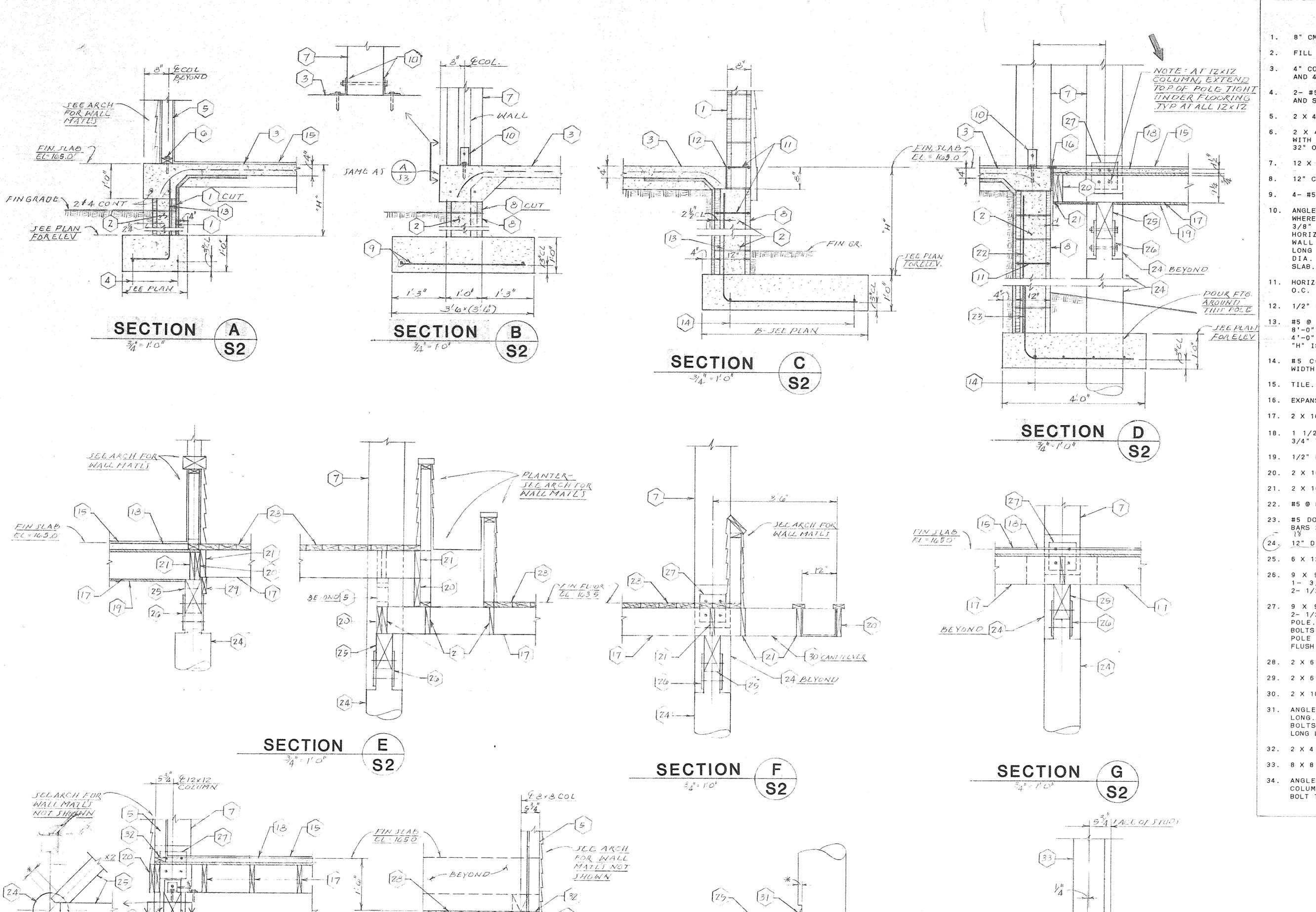
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Structural Consultants
1223 Elimwood Avenue
Columbia, S.C. 29201

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S-1



*-ATREGO. TO FLUSTI ANGLE

AGAINST POLE

TYPICAL BEAM TO POLE CONN.

DETAIL AT 12 x 12 WOOD COLUMN

1"= 1:0"

EPOLE & BEAM

SECTION

FACE OF STUDS

S2

ANGLES & BOLTS NOT SHOWN FOR

FACE OF STUDY G" EPOLE & BEAM

SECTION

TEB=TOP & BOTTOM

S2

CLARITY

*-3"MIN

KEY NOTES

1. 8" CMU.

2. FILL ALL CELLS SOLID WITH CONCRETE.

3. 4" CONCRETE SLAB OVER VAPOR BARRIER AND 4" SAND BASE.

4. 2- #5 CONT. LAP 1'-6" AT CORNERS AND SPLICES.

5. 2 X 4 STUDS AT 16" O.C.

6. 2 X 4 PLATE CONT. ANCHOR TO FLOOR WITH 1/2" DIA. EXPANSION BOLTS AT 32" O.C.

7. 12 X 12 WOOD COLUMN.

8. 12" CMU.

9. 4- #5 X 3'-0" O.C. EACH WAY.

10. ANGLE 6 X 4 X 3/8 X 3" LONG ON SIDE WHERE WALL PERPENDICULAR TO COLUMN. 3/8" PLATE BRACKET (6" VERT. + 4" HORIZ.) X 3" LONG ON SIDE WHERE WALL DIAGONAL. 1- 3/4" DIA. X 6" LONG LAG BOLT TO COLUMN. 1- 3/4" DIA. X 6" LONG EXPANSION BOLT TO SLAB.

11. HORIZONTAL WALL REINFORCING AT 16" O.C.

12. 1/2" EXPANSION JOINT MATERIAL.

13. #5 @ 8" O.C. WHERE "H" IS 6'-0" TO 8'-0". #5 @ 16" O.C. WHERE "H" IS 4'-0" TO 5'-4". #4 @ 16" O.C. WHERE "H" IS 2'-8" TO 3'-4".

14. #5 CONT. FOR EACH 12" FOOTING WIDTH.

16. EXPANSION JOINT COVER - SEE ARCH.

17. 2 X 10 JOISTS AT 16" O.C.

18. 1 1/2" LIGHTWEIGHT CONCRETE OVER 3/4" TONGUE & GROOVE PLYWOOD.

19. 1/2" PLYWOOD.

20. 2 X 10 CONT.

21. 2 X 10 SOLID BLOCKING.

22. #5 @ 8" O.C.

23. #5 DOWELS AT 8" O.C. LAP VERTICAL BARS 24".

(24. 12" DIA. (MIN.) TREATED WOOD POLE.

25. 6 X 12 WOOD BEAM.

26. 9 X 9 X 1/4 PLATE EACH SIDE. 1- 3/4" DIA. BOLT THRU PILE. 2- 1/2" DIA. BOLTS THRU BEAMS.

27. 9 X 9 X 1/4 PLATE EACH SIDE. 2- 1/2" DIA. X 6" LONG LAG BOLTS TO POLE. 2- 1/2" DIA. X 6" LONG LAG BOLTS TO 12 X 12 COL. DAP SIDES OF POLE & COLUMN ONLY AS REQUIRED FOR FLUSH PLATE CONNECTION.

28. 2 X 6 WOOD DECK.

29. 2 X 6 CONT. LEDGER.

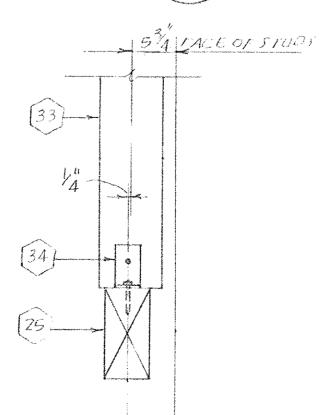
30. 2 X 10's @ 32" O.C.

31. ANGLE 3 1/2 X 3 1/2 X 1/4 X 3"
LONG. 1- 1/2" DIA. X 6" LONG LAG
BOLTS TO POLE. 1- 1/2" DIA. X 3"
LONG LAG BOLTS TO BEAM.

32. 2 X 4 PLATE CONT.

33. 8 X 8 WOOD COLUMN.

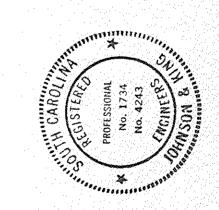
34. ANGLE 5 X 3 X 1/4 (LLV) EACH SIDE COLUMN. 1/2" DIA. X 3" LONG LAG BOLT TO COLUMN & BEAM.

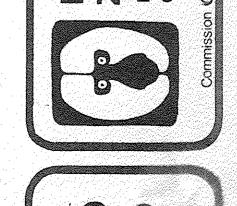


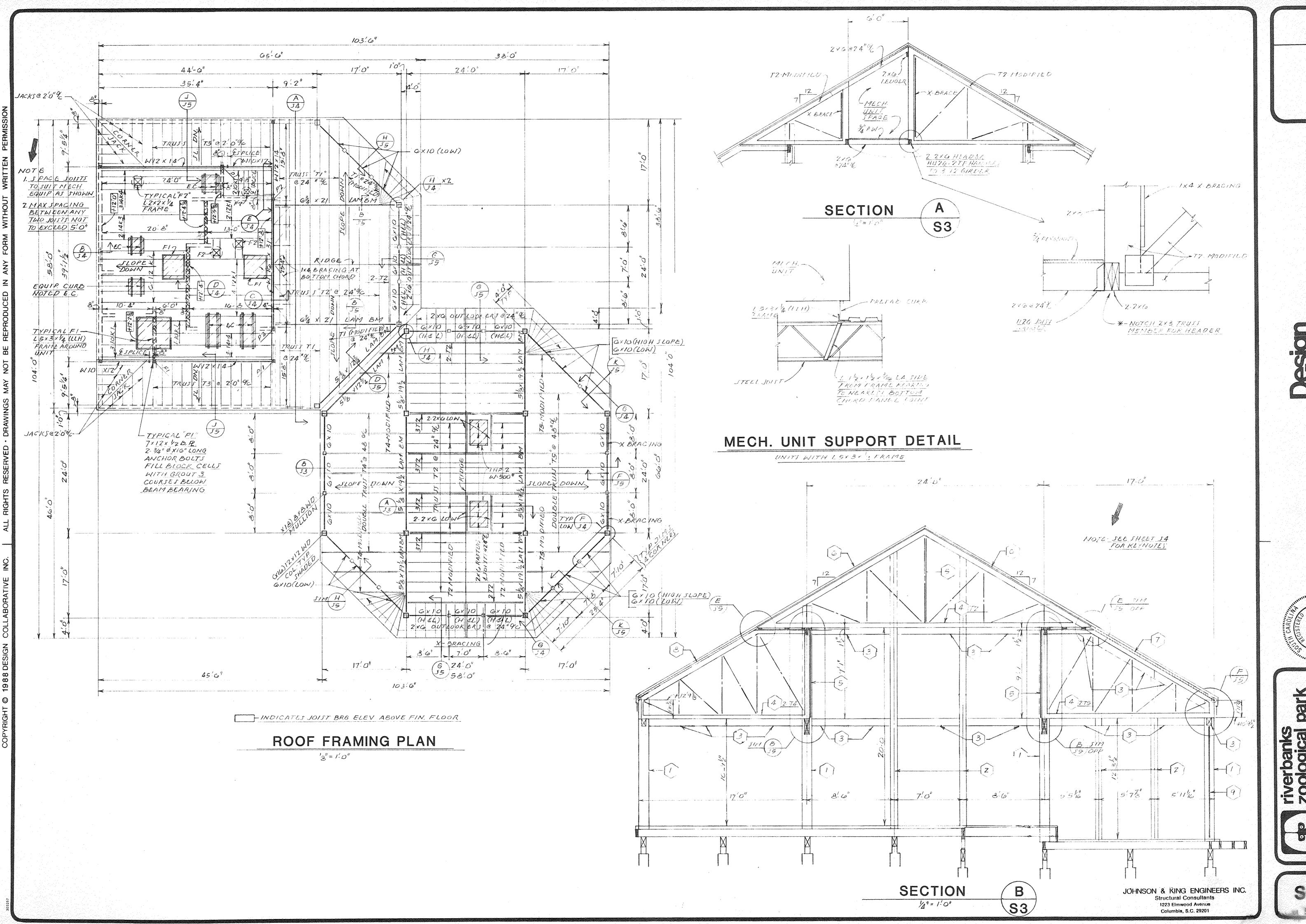
TYPICAL 8 x 8 COLUMN TO 6 x 12 BEAM CONN. DETAIL 1"=110"

G" FACE OF STUDS

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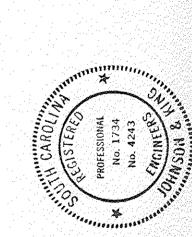






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COESION ARCHITECTS PLANNERS/COL



restaurant south carolina columbia south carolina columbia south carolina bate March 5, 1986



KEY NOTES

1. 12 X 12 WOOD COLUMN. 2. 8 X 8 WOOD COLUMN.

3. 6 X 10 WOOD REAM.

X-BRACING.

4. PREFABRICATED WOOD TRUSS.

5. 1 X 4 CONT. X-BRACING.

6. 5/8" PLYWOOD SHEATHING. 7. 2 X 6 TONGUE & GROOVE TIMBER DECK-

8. 1" RIGID INSULATION OVER 2 X 6 T&G TIMBER DECKING. 9. 3/4" DIA, STAINLESS STEEL

10. 8" CMU. 11. HORIZONIAL WALL REINFORCING AT 16"

12. 8" U BLOCK BEAM WITH 2- #4 CONT.

13. 3 X 1/4 PLATE CONT. WITH 1/2" DIA. X 4" LONG STUDS AT 18" O.C. 14. STEEL JOIST - SEE PLAN FOR SIZE.

15. 1 1/2", TYPE F, 22 GAGE. GALVANIZED SIFEL ROOF DECK. 16. 2 X 8 PLATE CONT. 3/8" DIA. BOLIS

TO BEAM AT 12" O.C. STAGGERED EACH SIDE BEAM WEB. 17. STEEL BEAM - SEE PLAN FOR SIZE.

18. 2 X 4 STUDS AT 16" 0.C. 19. 2 X 4 CONT. 2- 12 PENNY NAILS TO

EACH STUD. 20. 1 X 4 CONT. BRACING. SEE PLAN FOR PATTERN.

21. 4 X 1/4 PLATE CONT. WITH 1/2" DIA. X 4" LONG STUDS AT 18" O.C. 22. LAMINATED WOOD BEAM.

23. ANGLE 5 X 5 X 5/16 X 3" LONG. 1- 1/2" DIA. X 3" LONG LAG BOLT TO COLUMN AND BEAM.

24. "P2" BEARING PLATE, 7 1/2 X 14 X 3/4 PLATE OVER 1" GROUT WITH 2 - 3/4" DIA. X 16" LONG ANCHOR BOL15.

25. BEAM HANGER - L - 3 X 3 X 1/4 EACH SIDE OF BEAM, 5 1/2" X 14" X 1/2" PLATE TOP AND BOTTOM, 4- 3/4" DIA. BOLTS TO STEEL BEAM. 3- 1/2" DIA. BOLTS THRU WOOD BEAM.

26. STANDARD SHEAR CONNECTION WITH 4- 3/4" DIA. BULTS.

27. ANGLE 3 1/2 X 2 1/2 X 1/4 X 5" LONG. 2- 1/2" DIA. BOLIS THRU BEAM. 2- 1/2" DIA. X 3" LONG LAG BOLTS TO COLUMN.

28. 7 X 1/4 BENT PLATE (4 1/2" X 2 1/2") X 6" LONG. 2- 1/2" DIA. BOLTS THRU BEAM, 2- 1/2" DIA, X 3" LONG LAG BOLTS TO COLUMN.

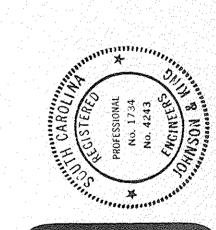
29. DAP COLUMN TO RECEIVE BEAM. 30. ANGLE 3 1/2 X 3 1/2 X 1/4 X 5" LONG. 2- 1/2" DIA. X 3" LONG LAG BOLTS TO BEAM AND COLUMN.

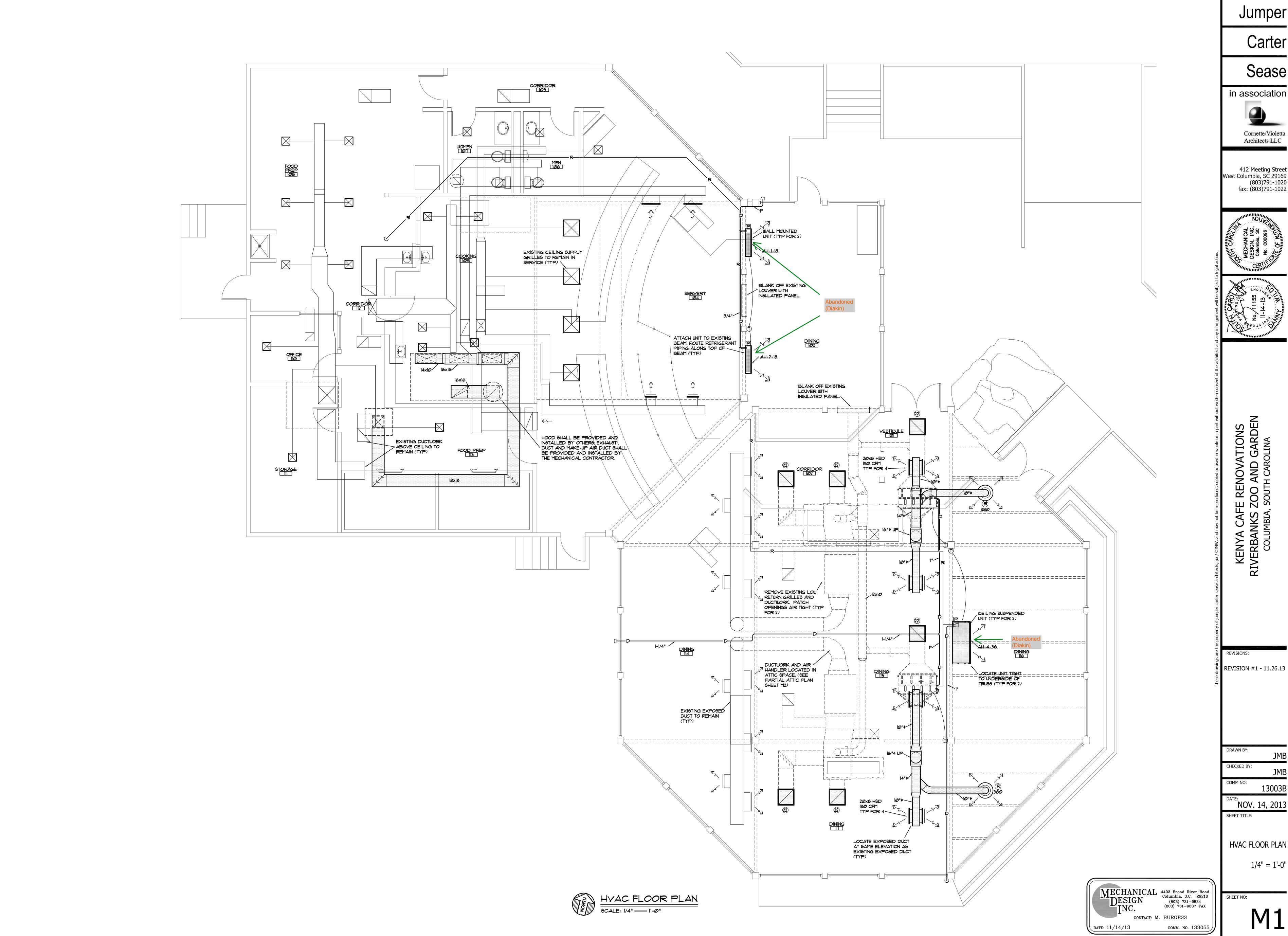
31. 1/4" PLATE EACH SIDE OF COLUMN. 32. 1/4" STIFFENER PLATE EACH SIDE.

33. L - 3 X 3 X 1/4 X 1'-6" LONG SEAT: 2- 3/4" DIA. BOLIS EACH SIDE.

PLAN DETAIL

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Carter

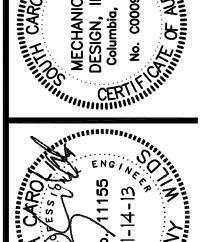
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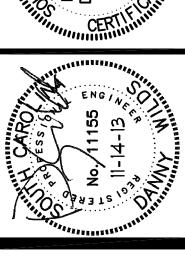
in association



412 Meeting Street Vest Columbia, SC 29169 (803)791-1020 fax: (803)791-1022







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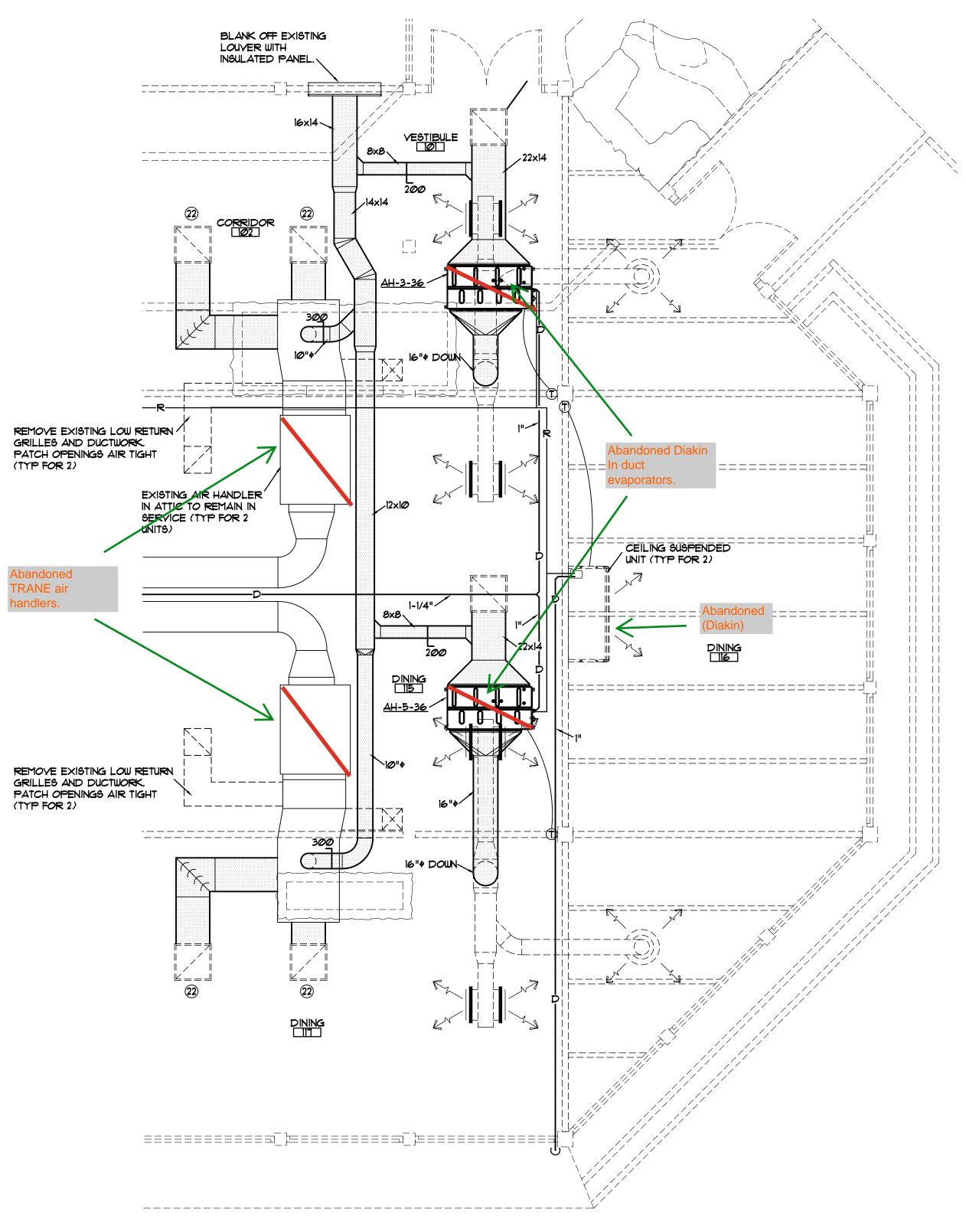
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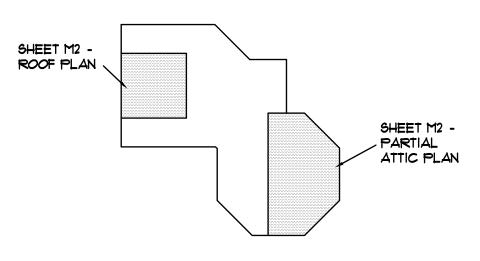
HVAC FLOOR PLAN

1/4" = 1'-0"







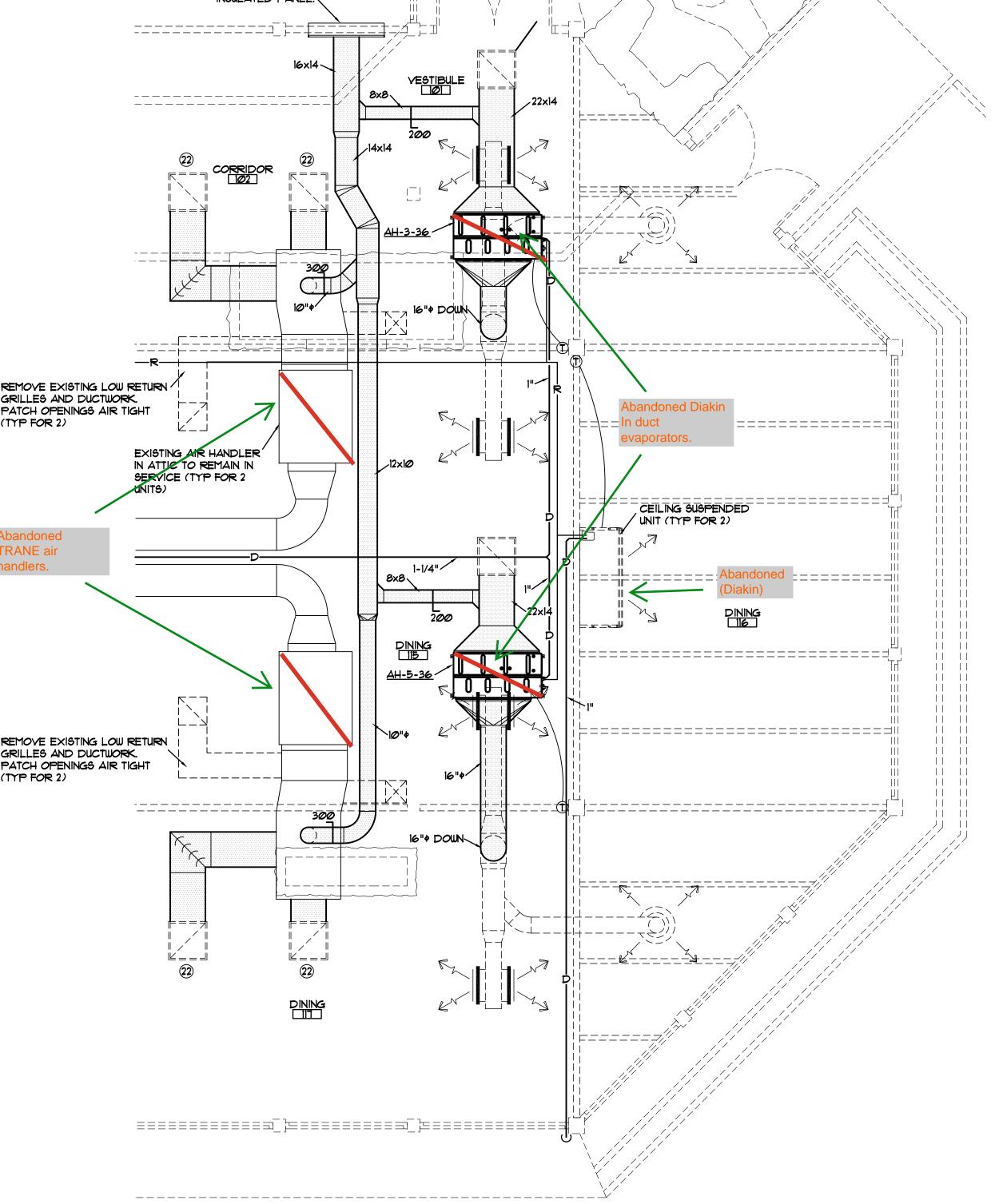


KEY PLAN

DATE: 11/14/13

MECHANICAL 4403 Broad River Road Columbia, S.C. 29210 (803) 731-9834 (803) 731-9837 FAX

CONTACT: M. BURGESS сомм. No. 133055



in association

Cornette/Violetta

Architects LLC

412 Meeting Street /est Columbia, SC 29169

fax: (803)791-1022

(803)791-1020

REVISION #1 - 11.26.13

CHECKED BY:

13003B

NOV. 14, 2013

HVAC ROOF AND ATTIC PLAN

1/4" = 1'-0"

MULTI-SPLIT SYSTEM HEAT PUMP SCHEDULE 1001														
AIR HANDLING UNIT							HEAT PUMP							
MARK	DAIKIN MODEL(2)	COOLING CAPACITY	HEATING CAPACITY	CFM	FAN E.S.P.	WATTS	MARK	DAIKIN MODEL 2	COOLING 3			HEATING @ 47°F (4)		
									TOTAL	SENS.	ENT.AIR	SEER	CAPACITY	HSPF
AH-1-18	FXAQIS	18,000	20,000	500	N/A	125	HP-1	RXYQ144	138.Ø N/4	N/A	80/67	-	154.0	-
AH-2-18	FXAQIS	18,000	20,000	500	N/A	125								
AH-3-36	FXMQ36	36,000	40,000	1,130	N/A	125								
AH-4-36	FXHQ36	36,000	40,000	830	N/A	125								
AH-5-36	FXMQ36	36,000	40,000	1,130	N/A	125								

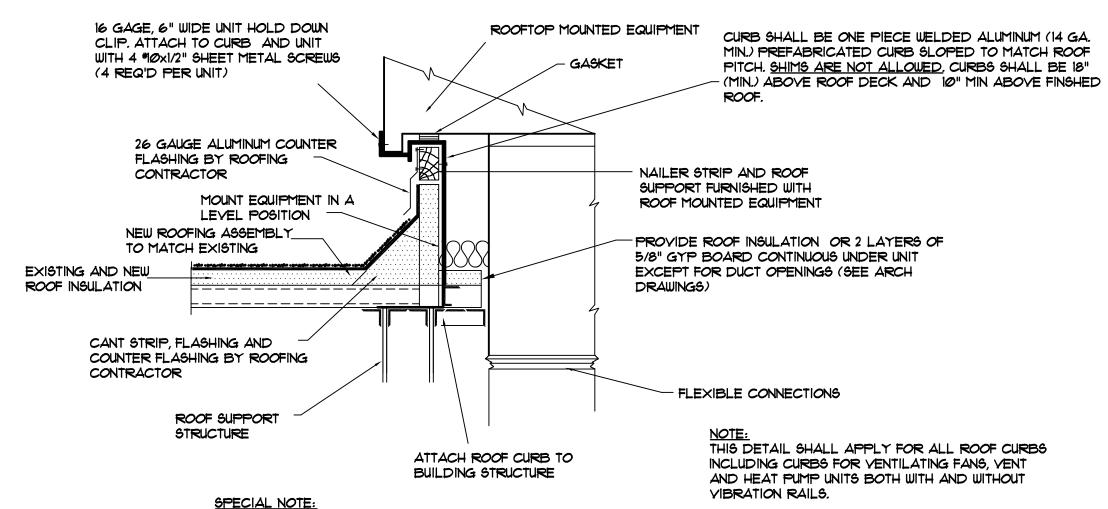
- (1) AIR HANDLING UNIT AND HEAT PUMP TO MATCH AVAILABLE ELECTRICAL SERVICE, SEE ELECTRICAL. AIR
- HANDLING UNIT SHALL HAVE ONE POINT OF POWER CONNECTION.
- 2 OR EQUAL BY MITSUBISHI, LG OR APPROVED EQUAL.
- 3) BASED ON 100°F CONDENSER AIR TEMPERATURE.
 4) BASED ON 10°F ENTERING AIR TEMPERATURE.
- (4) BASED ON 10°F ENTERING AIR TEMPERATURE.(5) PROVIDE WITH FACTORY INSTALLED CONDENSATE PUMP.
- 6 PROVIDE DAIKIN MODEL BRECITI DELUXE DIGITAL WALL CONTROLLER WITH BACKLIT DISPLAY AND DAIKIN
- I-TOUCH CENTRALIZED CONTROLLER WITH BACNET PROTOCOL INTERFACE

 PROVIDE FRESH AIR KITS FOR ALL CEILING CASSETTES RECEIVING OUTDOOR AIR.

VENTILATING FAN SCHEDULE										
MARK	GREENHECK (2)	YOLTS/ PHASE	CFM		FAN	FAN H.P.	SONES	DRIVE	CONTROLLED	
	MODEL		MIN.	MAX.	6.P.	OR WATTS			BY	
∨ F-1	CUE-161-A	1	2600	3855	1.5	2 HP	26	DIRECT	HOOD SWITCH	
√F-2	RSF-150	(1)	2100	3185	Ø5	3/4 HP	12.2	DIRECT	HOOD SWITCH	

- 1) FANS TO MATCH AVAILABLE ELECTRICAL SERVICE, SEE ELECTRICAL
- (2) OR EQUAL, SEE SPECIFICATIONS
- 3 BALANCE FANS TO MINIMUM CFM SCHEDULED. FANS SHALL BE CAPABLE OF MAXIMUM CFM WITHOUT CHANGING MOTORS OR SHEAVES
- (4) PROVIDE HINGED FAN FOR EASY MAINTENANCE
- 5 PROVIDE BASE HINGING KIT, GRAVITY DAMPER, WEATHERPROOF DISCONNECT, GREASE COLLECTION BOX AND
- 6 PROVIDE VIBRATION ISOLATION, INSULATED HOUSING, INTAKE FILTER AND GRAVITY DAMPER.

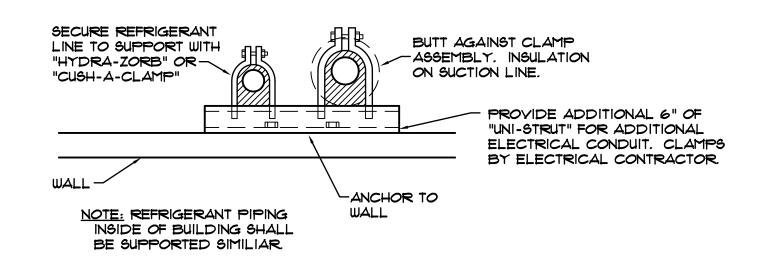
NOTE: CURB SHALL BE FURNISHED BY EQUIPMENT MANUFACTURER AND SHALL BE INSTALLED AND FLASHED BY GENERAL CONTRACTOR



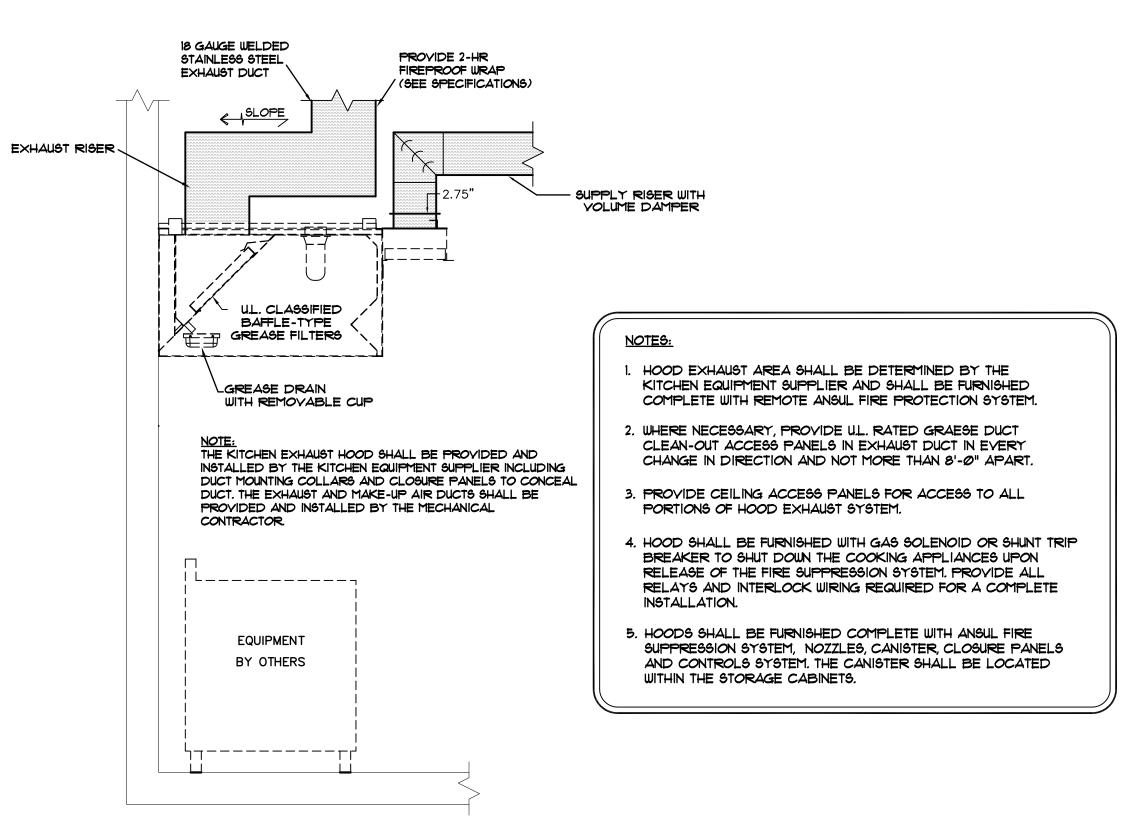
SPECIAL NOTE:
WHERE OPENINGS IN ROOF ARE CUT LARGER THAN REQUIRED FOR DUCT
PENETRATION, THE CONTRACTOR SHALL PROVIDE SOUND ABSORBING
MATERIAL BETWEEN OPENING AND BOTTOM OF UNIT FOR SOUND REDUCTION.

ROOF MOUNTED EQUIPMENT DETAIL

NOT TO SCALE

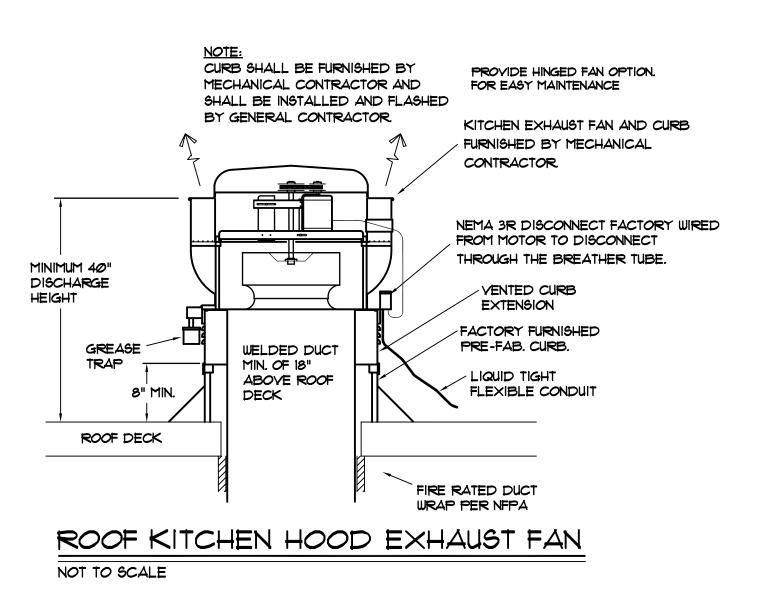


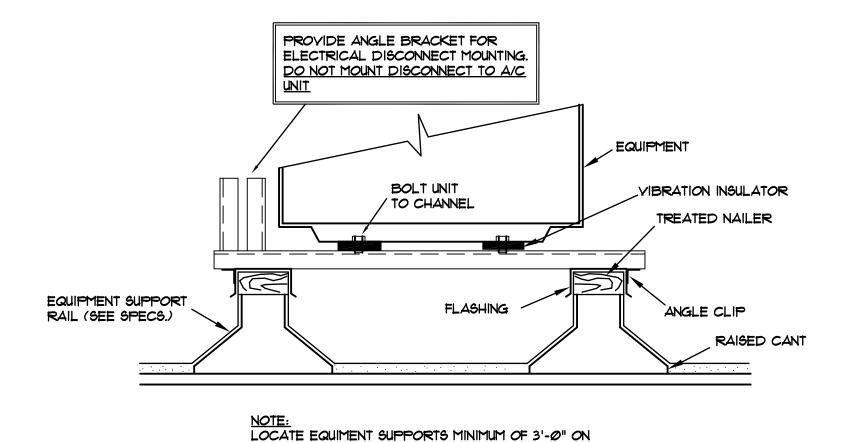
REFRIGERANT PIPE SUPPORT DETAIL
NOT TO SCALE



ELEVATION VIEW

KITCHEN EXHAUST HOOD NOT TO SCALE





CENTERS FOR THE PURPOSE OF REROOFING.

ROOFTOP EQUIPMENT SUPPORT DETAIL

NO SCALE

GRILLE AND DIFFUSER SCHEDULE									
GRILLE/ DIFFUSER	CEILING TYPE	MANUF.	MODEL	MATERIAL					
SQUARE SUPPLY (PLAQUE)	LAY-IN	METAL-AIRE *	575Ø	AL. FACE / S. BACKPAN					
SQUARE RETURN	LAY-IN EGG CRATE	METAL-AIRE *	CC15D TB 1/2"x1/2"x1"	ALUMINUM					
SQUARE RETURN	GYP. BD. EGG CRATE	METAL-AIRE *	CC15D 1/2"x1/2"x1"	ALUMINUM					
HSD	GYP. BD.	METAL-AIRE *	H4004D	ALUMINUM					
RAG	GYP BD.	METAL-AIRE *	RC-041C	ALUMINUM					
HDRAG	GYP BD.	METAL-AIRE *	4538	STEEL					
EG	SUR/LAY-IN	METAL-AIRE *	CCI5D 1/2"x1/2"x1"	ALUMINUM					
ROUND R		METAL-AIRE *	SERIES 3000	ALUMINUM					

* OR EQUAL BY PRICE

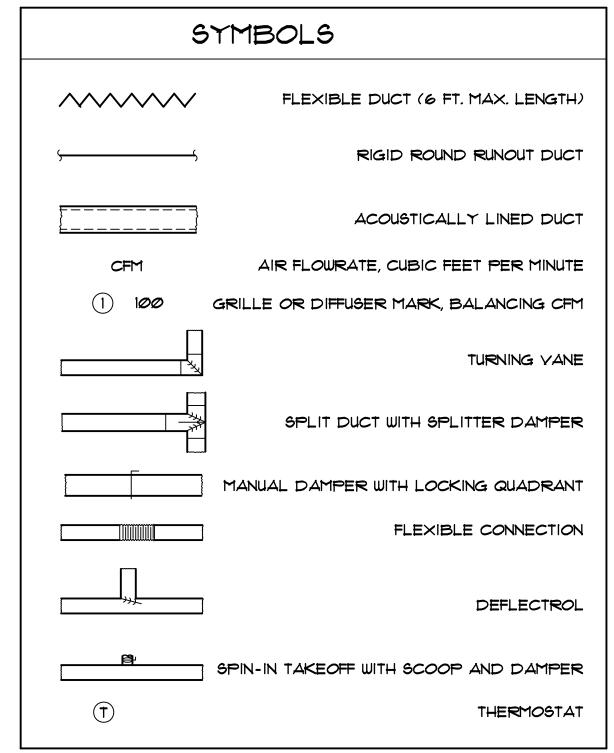
NOTES: 1. GRILLE AND DIFFUSER LOCATIONS SHOWN ON FLOOR PLANS ARE APPROXIMATE, SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION.

2. GRILLES AND DIFFUSERS SHALL MATCH CEILING TYPE, SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPE.

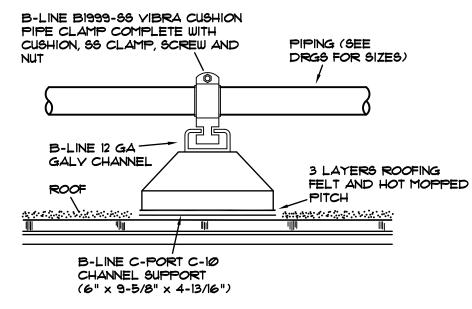
3. LAY-IN EGGCRATE SHALL HAVE FULL FACE (24x24) AND FULL SIZE STEEL BACK PLATE WITH DUCT CONNECTOR COLLAR. INTERIOR OF GRILLE SHALL BE FLAT BLACK.

4. ROUND NECK DIFFUSER WILL NOT BE ACCEPTED.

5. PROVIDE 36×36 BACK PAN INSULATION BLANKET FOR ALL LAY-IN DIFFUSERS.







ROOFTOP PIPE SUPPORT DETAIL

NOTES:

1. LOCATE PIPE SUPPORT MAXIMUM
8'-0" ON CENTERS AND AT EACH FITTING.

2. POLYETHYLENE FOAM AND WOOD TIMBERS
WILL NOT BE ACCEPTED.

AFE RES ZOO IA, SOUT

TONS

Sease

Cornette/Violetta

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REVISION #1 - 11.26.13

DRAWN BY:

JM

CHECKED BY:

JM

13003B NOV. 14, 2013

COMM NO:

NOV. 14, 2013
SHEET TITLE:

SCHEDULES & DETAILS 1/4" = 1'-0"

MECHANICAL 4403 Broad River Road Columbia, S.C. 29210

DESIGN (803) 731-9834 (803) 731-9837 FAX

CONTACT: M. BURGESS

DATE: 11/14/13 COMM. NO. 133055

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